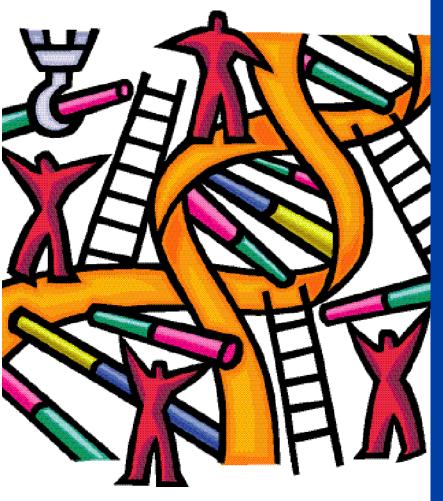
Applying New Biotechnology to the Study of Occupational Cancer







Agenda

Cancer Research Methods Workshop

May 8-9, 2002 Omni Shoreham Hotel Washington, DC

National Institute for Occupational Safety and Health National Cancer Institute

National Institute of Environmental Health Sciences American Chemistry Council



Workshop Objective

The purpose of the Workshop is to bring together researchers who study worker populations and those who are developing/validating new biotechnologies in order to foster collaborations and promote effective application of methodologies for better understanding of occupational cancer.

Planning Committee

Aaron Blair

National Cancer Institute, Bethesda, MD

Stefano Bonassi

National Institute for Research on Cancer, Genoa, Italy

Paul Brandt-Rauf

Columbia University, New York, NY

Ronald Melnick

National Institute of Environmental Health Sciences, Research Triangle Park, NC

Frank Mirer

International Union, United Auto Workers, Detroit, MI

Nat Rothman

National Cancer Institute, Bethesda, MD

Paul Schulte, Co-Chair

National Institute for Occupational Safety and Health, Cincinnati, OH

Raymond Tennant

National Institute of Environmental Health Sciences, Research Triangle Park, NC

Mark Toraason, Co-Chair

National Institute for Occupational Safety and Health, Cincinnati, OH

Elizabeth Ward, Co-Chair

National Institute for Occupational Safety and Health, Cincinnati, OH

Ainsley Weston

National Institute for Occupational Safety and Health, Cincinnati, OH



Wednesday, May 8

8:00 am Registration - Ambassador Ballroom - Coffee

Welcome and Workshop Objective

8:40 am Kathleen Rest

National Institute for Occupational Safety and Health, Washington, DC

8:45 am Elizabeth Ward

National Institute for Occupational Safety and Health, Cincinnati, OH

9:00 am Occupational Cancer in the 21st Century: What Are the Greatest Challenges?

Aaron Blair

National Cancer Institute, Bethesda, MD

9:20 am Discussion

9:30 am The Promise of New Biotechnologies for Assessing Occupational Carcinogens

Martyn Smith

University of California, Berkeley, CA

9:50 am Discussion

10:00 am Break - Coffee

Challenge of Applying New Biotechnologies to the Study of Occupational Cancer

10:30 am Introduction

Iack Siemiatycki - Chair

University of Montreal, Montreal, Canada

10:40 am Industry Perspective

Carol Henry

American Chemistry Council, Arlington, VA

10:55 am Academic Perspective

Richard Albertini

University of Vermont, Burlington, VT



Wednesday, May 8 (Continued)

11:10 am Labor Perspective

Frank Mirer

International Union, United Auto Workers, Detroit, MI

11:25 am Government Perspective

Steve Bayard

Occupational Safety and Health Administration, Washington, DC

11:40 am Discussion

12:00 noon Lunch (on own)

Markers of Early Biological Effect

1:00 pm Introduction

Nat Rothman - Chair

National Cancer Institute, Bethesda, MD

1:15 pm Pathobiology of Cancer and the Rationale of Assessing Intermediate Biomarkers

Peter Shields

Georgetown University, Washington, DC

1:35 pm Expression Assays and Overall Concepts in Toxicogenomics

Michael Waters

National Institute of Environmental Health Sciences, Research Triangle Park, NC

1:55 pm Monitoring Changes in Gene Expression to Assess Exposure

to Occupational Carcinogens

Ainsley Weston

National Institute for Occupational Safety and Health, Morgantown, WV

2:15 pm Discussion

2:40 pm Break - Coffee

3:20 pm DNA Damage and Somatic Mutations

Following Exposure to Occupational Carcinogens

William Bigbee

University of Pittsburgh, Pittsburgh, PA



Wednesday, May 8 (Continued)

3:40 pm Assessing Chromosomal Aberrations in Exposed Human Populations

David Eastmond

University of California, Riverside, CA

4:00 pm Using Biomarkers in Assessment of Exposure to Occupational Carcinogens

Stephen Rappaport

University of North Carolina, Chapel Hill, NC

4:30 pm Discussion

5:00 pm Poster Presentations - Wine and Cheese Reception

Thursday, May 9

7:30 am Registration - Coffee

8:15 am Application of Proteomics to Assessment of Carcinogen Exposure

Sam Hanash

University of Michigan, Ann Arbor, MI

Inherited Modifiers of Risk

8:30 am Introduction

Daniel Nebert - Chair

University of Cincinnati, Cincinnati, OH

8:50 am Identification of Relevant Genes for Known or Suspected Human Carcinogens

Fred Kadlubar

National Center for Toxicological Research, Jefferson, AR

9:10 am Identification of SNPs and New Technologies for Genotyping

Stephen Chanock

National Cancer Institute, Bethesda, MD

9:45 am **Discussion**

10:00 am Break - Coffee



Thursday, May 9 (Continued)

Application of Genetic Biomarkers to Human Studies

10:30 am Introduction

Paolo Boffetta - Chair

International Agency for Research on Cancer, Lyon, France

10:50 am Statistical and Interpretive Challenges to Analyzing Genetic and Exposure Data

Sholom Wacholder

National Cancer Institute, Bethesda, MD

11:10 am Institute Review Boards, Ethics, and the Use of New Technologies

in Molecular Epidemiology Studies

David Christiani

Harvard School of Public Health, Boston, MA

11:30 am Discussion

12:00 noon Lunch (on own)

Application of New Biotechnologies to the Understanding and Control of Known and Suspect Occupational Carcinogens

1:00 pm Introduction

Paul Schulte - Chair

National Institute for Occupational Safety and Health, Cincinnati, OH

1:15 pm Validation and Linking Intermediate Biomarkers to Cancer

Stefano Bonassi

National Institute for Research on Cancer, Genoa, Italy

1:35 pm Risk Assessment, Uncertainty and the Precautionary Principle

Paolo Vineis

Turin University, Turin, Italy

1:55 pm Discussion

2:15 pm Break - Coffee



Thursday, May 9 (Continued)

Case Studies

Introduction Paolo Boffetta - Chair International Agency for Research on Cancer, Lyon, France			
Diesel Exhaust: What Insights Will New Technologies Provide for Assessing the Risk of Exposure to a Complex Mixture? Roel Vermeulen National Cancer Institute, Bethesda, MD			
Discussion			
Perchloroethylene: How Can New Technologies Resolve an Ambiguous Occupational Exposure? Avima Ruder National Institute for Occupational Safety and Health, Cincinnati, OH			
Discussion			
Metal Working Fluids: Can New Technologies Help Assess Cancer Risk? Paige Tolbert Emory University, Atlanta, GA			
Discussion			
Adjourn			